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	Application No.	Applicant(s)	
Notice of Allowability	08/986,552	LEONARD ET AL.	
	Examiner	Art Unit	
	David A Redding	1744	
The MAILING DATE of this communication at All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOLNOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.	IS (OR REMAINS) CLOSED in 85) or other appropriate commun RIGHTS. This application is su	this application. If not includ	ed course THIS
1. \square This communication is responsive to $\underline{11/23/2004}$.			
2. The allowed claim(s) is/are <u>1-6</u> .			
3. The drawings filed on are accepted by the Exam	iner.		
 4. ☐ Acknowledgment is made of a claim for foreign priority a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 	ave been received. ave been received in Application	No	
 Copies of the certified copies of the priority International Bureau (PCT Rule 17.2(a)). 	documents have been received	in this national stage applica	tion from the
* Certified copies not received:	•		
Applicant has THREE MONTHS FROM THE "MAILING DAT noted below. Failure to timely comply will result in ABANDO THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	E" of this communication to file a NMENT of this application.	a reply complying with the rec	quirements
5. A SUBSTITUTE OATH OR DECLARATION must be sul INFORMAL PATENT APPLICATION (PTO-152) which g	bmitted. Note the attached EXAN gives reason(s) why the oath or o	MINER'S AMENDMENT or N declaration is deficient.	OTICE OF
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") n (a) ☐ including changes required by the Notice of Draftsp 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examination Paper No./Mail Date Identifying indicia such as the application number (see 37 CFF) 	erson's Patent Drawing Review er's Amendment / Comment or in	n the Office action of	
each sheet. Replacement sheet(s) should be labeled as such i	n the header according to 37 CFR	1.121(d).	back) of
 DEPOSIT OF and/or INFORMATION about the department of the department of	posit of BIOLOGICAL MATER IT FOR THE DEPOSIT OF BIOL	RIAL must be submitted. N OGICAL MATERIAL.	lote the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 □ Notice of Info	rmal Patent Application (DTC	150)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948		rmal Patent Application (PTC nmary (PTO-413).	<u>- 152)</u>
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SE	Paper No./M	ail Date mendment/Comment	
Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit			
of Biological Material	8. ⊠ Examiner's Si 9. ☐ Other	atement of Reasons for Allov	vance

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04) Application/Control Number: 08/986,552

Art Unit: 1744

Reasons For Allowance

The following is an examiner's statement of reasons for allowance: applicant is correct that Callenoff's improvement over the prior art is the collection of fetal cells originating from the placenta and not a maternal blood sample as claimed. Further, applicant is correct that Callenoff merely mentions "mixing" of the sample solution with the antibody-bound particles and is silent as to creating "chaotic flow" using the device claimed. Also applicant is correct that the mixing of cells and antibody molecules generally alluded to in Calenoff is clearly different from the mixing studied in Chaiken, which specifically relates to the dispersal of dye in solution, and that it would not be obvious to extend Chaiken's characterizations of chaotic advection systems to mixtures of living cells. More importantly, applicant is correct that neither Calenoff and Chaiken address the issue of enhancing the likelihood that a free floating cell would come in contact with a collector surface of a vessel by creating chaotic flow using the structural elements claimed.

Drawings

New corrected drawings in compliance with 37 CFR 1.121(d) are required in this application because the drawings are informal. Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abevance.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David A Redding whose telephone number is 571-272-1276. The examiner can normally be reached on Mon.-Fri. 6:00 - 3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Warden can be reached on 571-272-1281. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AVID A. REDDING
MARY EXAMINE

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